

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMIERE

Report Number: P221346

Luminaire Tested: **9002-W2-FL-LED3597-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29417)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED3597-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 772.9 lumens
Efficiency: N/A
Efficacy: 38.6 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.25
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

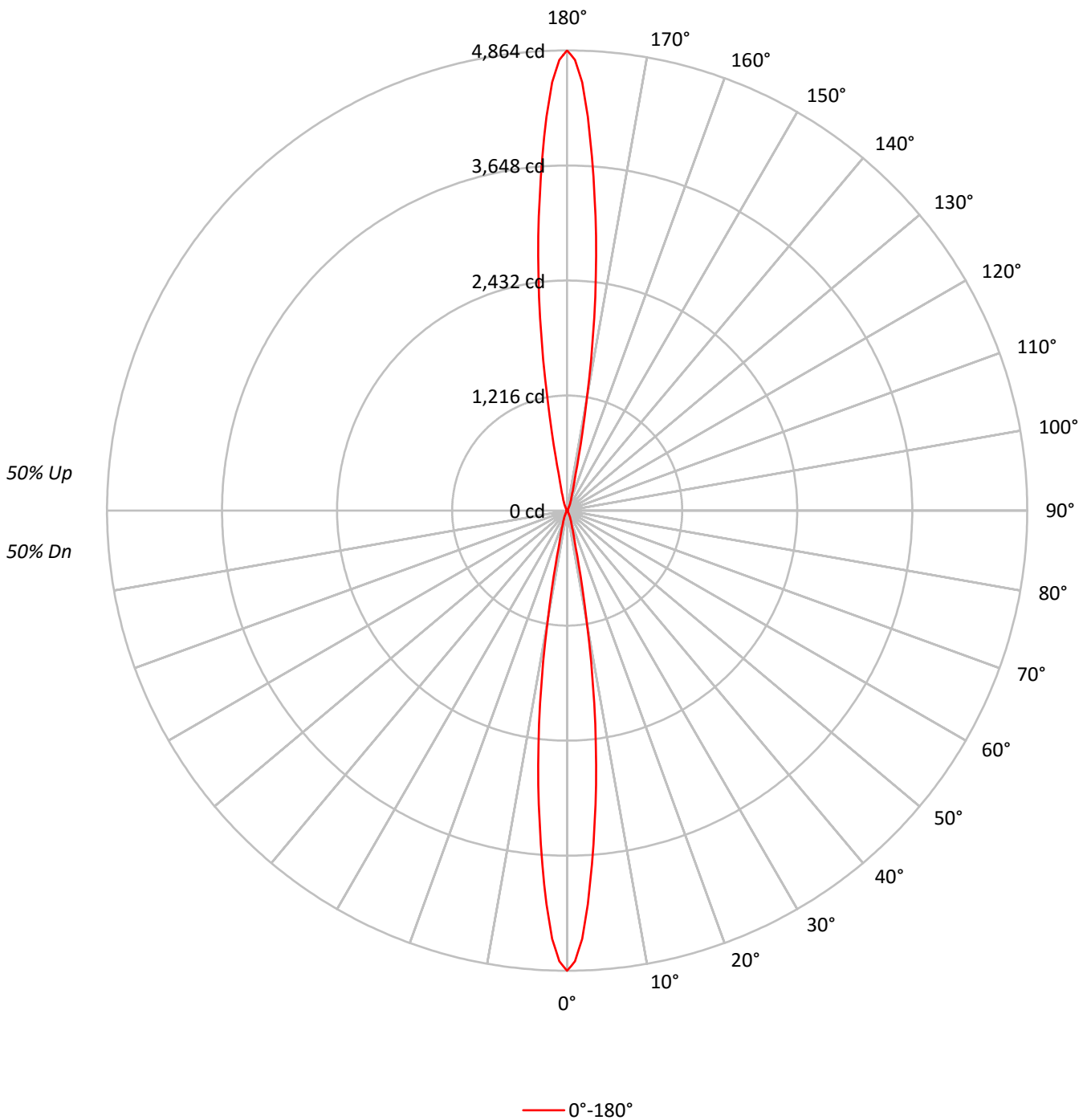
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	101	98	95	93	94	91	89	87	78	77	75	66	65	64	55	54	54	49				
2	96	91	87	83	89	85	81	78	73	71	69	63	62	60	53	53	52	48				
3	91	84	79	76	84	79	75	72	70	67	64	61	59	57	52	51	50	47				
4	86	79	74	70	81	75	70	67	66	63	61	58	56	55	51	50	49	46				
5	82	75	69	65	77	71	66	63	63	60	58	57	54	53	50	49	48	45				
6	79	71	65	61	74	67	63	59	61	58	55	55	53	51	49	48	47	45				
7	76	67	62	58	71	64	60	57	59	55	53	53	51	49	48	47	46	44				
8	73	65	59	56	69	62	57	54	57	54	51	52	50	48	48	46	45	43				
9	70	62	57	54	67	60	55	52	55	52	50	51	49	47	47	45	44	43				
10	68	60	55	52	65	58	54	51	54	50	48	50	48	46	46	45	44	42				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2399699
5°	1649131
10°	601239
15°	123661
20°	59750
25°	29614
30°	11109
35°	5903
40°	4702
45°	3419
50°	3147
55°	2839
60°	3256
65°	3853
70°	3462
75°	3050
80°	2273
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.9	32.3
10°-20°	91.6	11.8
20°-30°	26.1	3.4
30°-40°	6.8	0.9
40°-50°	4.1	0.5
50°-60°	3.2	0.4
60°-70°	2.9	0.4
70°-80°	1.7	0.2
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	1.7	0.2
110°-120°	2.9	0.4
120°-130°	3.2	0.4
130°-140°	4.1	0.5
140°-150°	6.8	0.9
150°-160°	26.1	3.4
160°-170°	91.6	11.8
170°-180°	249.9	32.3
0°-30°	367.6	47.6
0°-40°	374.4	48.4
0°-60°	381.7	49.4
0°-90°	386.4	50.0
90°-120°	4.7	0.6
90°-150°	18.8	2.4
90°-180°	386.0	49.9
0°-180°	772.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4864	
5°	3330	250
15°	242	92
25°	54	26
35°	10	7
45°	5	4
55°	3	3
65°	3	3
75°	2	2
85°	0	0
90°	0	0
95°	0	0
105°	2	2
115°	3	3
125°	3	3
135°	5	4
145°	10	7
155°	54	26
165°	242	92
175°	3330	250
180°	4864	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4863.8
1°	4764.7
2°	4529.1
3°	4167.5
4°	3749.0
5°	3329.8
6°	2915.4
7°	2494.5
8°	2055.7
9°	1616.1
10°	1200.1
11°	841.8
12°	579.3
13°	407.9
14°	304.7
15°	242.1
17.5°	157.6
20°	113.8
22.5°	83.7
25°	54.4
27.5°	32.5
30°	19.5
32.5°	13.0
35°	9.8
37.5°	8.1
40°	7.3
42.5°	5.7
45°	4.9
47.5°	4.9
50°	4.1
52.5°	4.1
55°	3.3
57.5°	3.3
60°	3.3
62.5°	3.3
65°	3.3
67.5°	2.4
70°	2.4
72.5°	2.4
75°	1.6
77.5°	0.8
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.8
102.5°	0.8
105°	1.6
107.5°	2.4
110°	2.4
112.5°	2.4
115°	3.3
117.5°	3.3
120°	3.3
122.5°	3.3
125°	3.3
127.5°	4.1
130°	4.1
132.5°	4.9
135°	4.9
137.5°	5.7
140°	7.3
142.5°	8.1
145°	9.8
147.5°	13.0
150°	19.5
152.5°	32.5
155°	54.4
157.5°	83.7
160°	113.8
162.5°	157.6
165°	242.1
166°	304.7
167°	407.9
168°	579.3
169°	841.8
170°	1200.1
171°	1616.1
172°	2055.7
173°	2494.5
174°	2915.4
175°	3329.8
176°	3749.0
177°	4167.5
178°	4529.1
179°	4764.7



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CANDELA DISTRIBUTION (continued):

180° | $\frac{0^\circ}{4863.8}$

(END OF REPORT)